

Newsletter Belgian Solar Observers

Results and news for solar observers

Volume 13

Number 144

February 2008

Franky Dubois Poelkapellestraat 39 langemark 8920

Web site: <http://www.bso.vvs.be> e-mail astrosun@skynet.be

Content Newsletter

Graphics and relative number for this month

Daily Wolfnumbers by the members

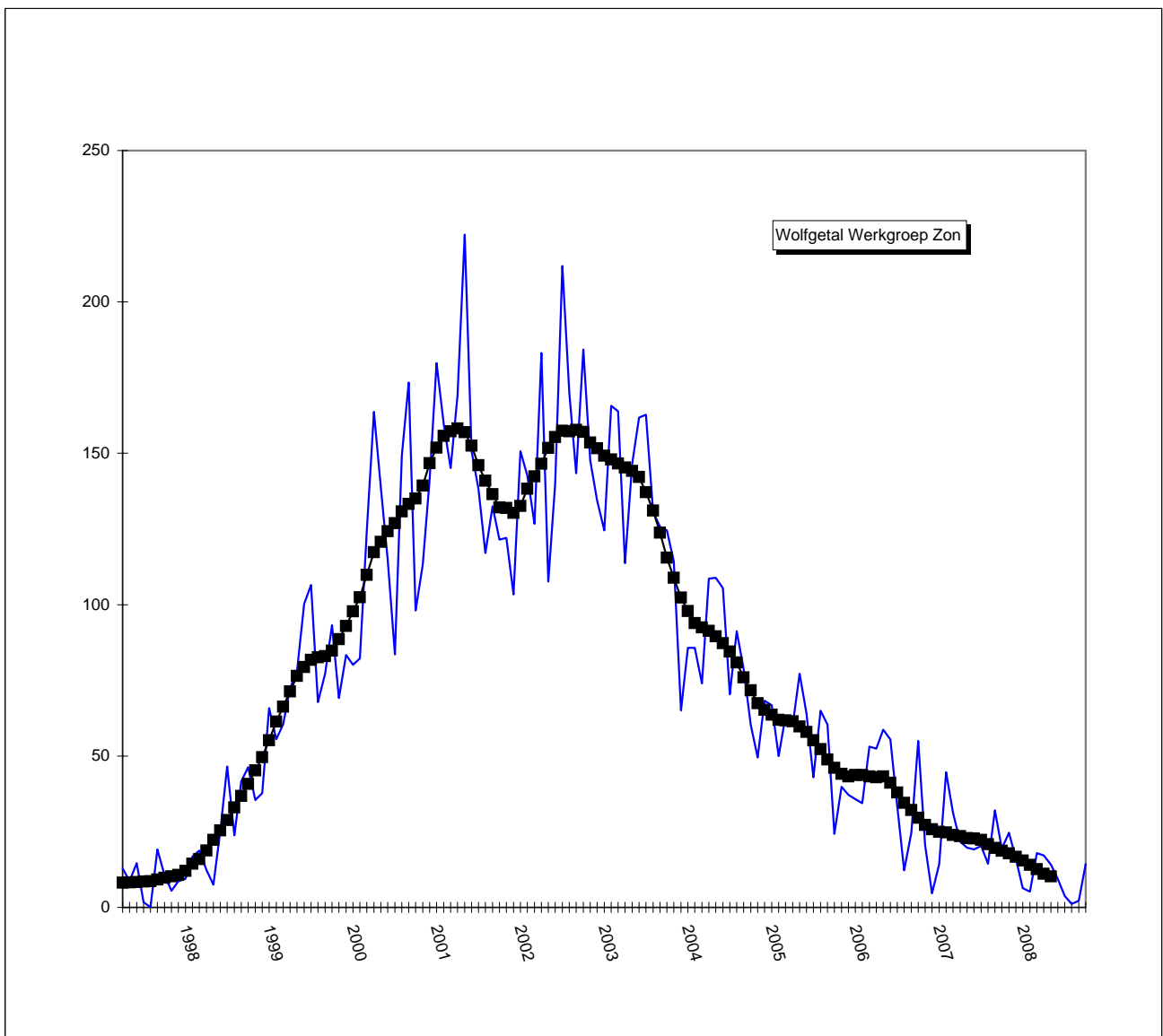
Monthly sunspot report

Polar faculae and CV numbers

Prominence numbers by the members

Monthly prominence report

Photo album and drawings



Mean of February observations

Groups :	N	0,03	Wolfnumb N	0,1	Beck :	4,1
	S	0,28	S	2,3	CV	0,8
	N+S	0,31	N+S	2,4		
396 observations	28 observers					

Sunspotnumbers VVS Belgium

Month: February 2008

Day	GROUPS			WOLFNUMBER			RE'	CV	OBS
	N	S	N+S	N	S	N+S			
1	0	1	1	0	13,9	13,9	25	4	10
2	0	1	1	0	7,4	7,4	15	5	24
3	0	1	1	0	9,8	9,8	21	3	13
4	0	1	1	0	3,4	3,4	4	1	9
5	0	0	0	0	0	0	0	0	1
6	0	0	0	0	0	0	0	0	8
7	0	0	0	0	0	0	0	0	18
8	0	0	0	0	0	0	0	0	20
9	1	0	1	3,5	0	3,5	2	1	24
10	0	0	0	0	0	0	0	0	23
11	0	0	0	0	0	0	0	0	19
12	0	0	0	0	0	0	0	0	21
13	0	1	1	0	3,1	3,1	2	1	7
14	0	0	0	0	0	0	0	0	1
15	0	0	0	0	0	0	0	0	20
16	0	0	0	0	0	0	0	0	24
17	0	0	0	0	0	0	0	0	20
18	0	0	0	0	0	0	0	0	21
19	0	0	0	0	0	0	0	0	16
20	0	0	0	0	0	0	0	0	11
21	0	0	0	0	0	0	0	0	3
22	0	0	0	0	0	0	0	0	1
23	0	0	0	0	0	0	0	0	18
24	0	0	0	0	0	0	0	0	13
25	0	1	1	0	6,9	6,9	4	1	20
26	0	1	1	0	12,5	12,5	34	5	8
27	0	1	1	0	10,3	10,3	12	3	17
28	0	0	0	0	0	0	0	0	2
29	0	0	0	0	0	0	0	0	4
	0,03	0,28	0,31	0,1	2,3	2,4	4,1	0,8	396

Monthly mean: **2,4** Covering: **29/29** Spotless days: **20**
 Observations: **396** Number of observers: **28**

V.V.S. BELGIUM SOLAR SECTION FRANKY DUBOIS

Poekapellestraat 39
 B8920 Langemark
 Belgium
 e-mail : astrosun@skynet.be

Observers:

Devriese ; De Ceuninck ; Janssens ; Publ obs Mira ; Bourgeois ; Macharis
 De Backer; Dubois ; Gysel ; Kleber ; Deman ; Taillieu ; Carels ; Dewaele
 Meeus ; Steen ; KSB ; Gabriel ; Claeys ; Devriese ; Thooris ; Vanleenhove
 Claes ; Verboven ; Van Loo ; Son ; Coeckelberghs ; Gadyne
 S.Dufoer ; G.Gubbels ; jeugdwerking Astrolab ; J Bavais ; A. De Kerchove

Prominence number Rp

Belgian solar observers

Month: February 2008

Day	Q	Wedel		H	e	Rp	el. Obs	Stdev	OBS
1	3	2,3		3,5	5,5	40,5	1	9,2	3
2	3,5	2,1		4,5	6,7	51,7		9,8	11
3	2,4	2,8		2	2,8	22,8		7,3	6
4	2,3	3		4	5,7	45,7	1	2,9	4
5									
6	3	2,3		4,5	8	53		8,5	2
7	3,1	2,2		5	7,2	57,2		7,1	6
8	2,6	2,3		4	6	46	1	6,1	9
9	3,2	1		6	11,9	71,9	2	10,3	11
10	3,4	2		7	12,9	82,9	3	13,9	10
11	3,4	2		7,7	10,8	87,8	1	9,5	8
12	3,7	1,8		5,9	10,9	69,9		16,1	10
13	3	2,5		3	3	33		0	2
14									
15	2,9	1,9		3,5	4,8	39,8	2	10,3	8
16	2,9	1,9		3	5,8	35,8		8,3	9
17	3,2	2,1		2,7	5	32	1	8,8	10
18	3,5	2,3		4,6	8,9	54,9	1	10,9	9
19	2,7	2,7		5,2	7,8	59,8	2	12,8	7
20	2,6	2,3		4	5	45	1	10,7	5
21	3	3		5	7	57			1
22									
23	2,9	2,2		5	7,8	57,8		12,6	5
24	2,7	2,3		4,5	7,3	52,3		9,4	6
25	2,9	2,6		4,5	7,1	52,1		9,5	8
26	2,8	2,5		3	5	35			2
27	3,5	2,3		4,3	7,7	50,7	1	4,6	4
28									
29	3	3		4	5,5	45,5		0,7	2
	3,01	2,30		4,4	7,0	51,2	17	8,7	158

Monthly mean: 51,2 Covering: 25/29
 Observations: 158 Number of observers: 11

V.V.S. BELGIUM SOLAR SECTION FRANKY DUBOIS

Poekapellestraat 39
 B8920 Langemark
 Belgium
 e-mail : astrosun@skynet.be

Observers:

Steen ; Dubois ; Meeus ; De Ceuninck ; Coeckelberghs ; Janssens
 Hamsch ; Claes ; Gabriel ; Blondeel ; Deman ; G.Gubbels ; T.Spaninks

Q : Seeing scale SIDC

W : transparency scale of Wedel , see <http://members.chello.be/j.janssens/>

H : number of prominence groups at the limb

e : total of individual prominences at the limb

Rp : $H \cdot 10 + e$

More info at : <http://members.chello.be/j.janssens/>

Different Relative Sunspotnumbers

Month : February 2008

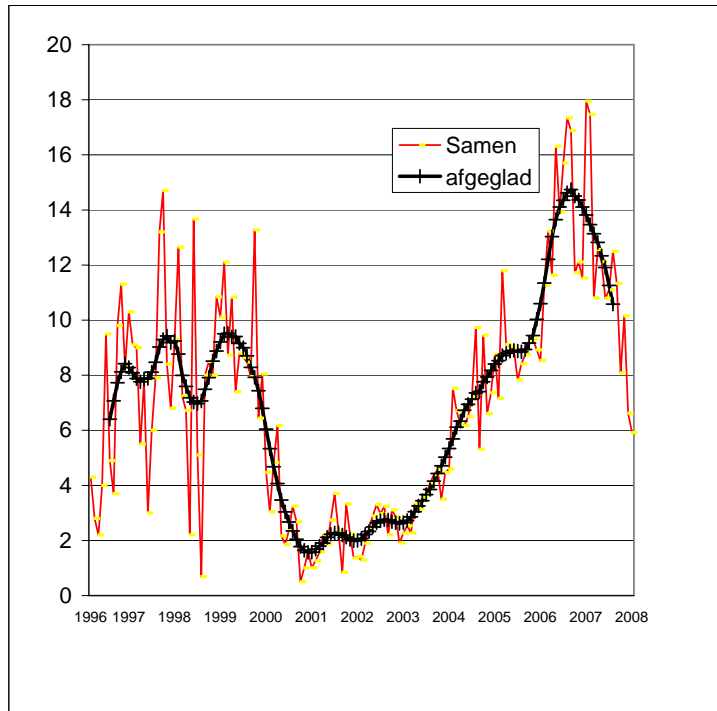
CV										Pettisindex SN				Intersol IS			Becknumber														
Date	F.Dubois	O.Steen	L.Meeus	J.Carels	J.Janssens	G.Gubbels	H.De Backer	S.Dufoer	Mean	G.Gubbels	F.Dubois	O.Steen	J.Carels	F.Dubois	J.Carels	G.Gubbels	F.Dubois	O.Steen	L.Meeus	J.Carels	G.Gubbels	S.Dufoer	A.T.Son	J.Bourgeois	H.Coeckelberghs	De Backer	Pbl Obs Mira	J.Claes	D.Van Hessche	Mean	Date
1	2	3		3		6			3,5		5	6	8	6	9		20	24		32						24			25	1	
2	2	0	8	1	0	25	3	0	4,9	21	8	0	1	9	1	5	32	0	24	4	72	0	0		0	16			15	2	
3	1	1				13	0	0	3,0	23	3	3		4		6	12	12			90	0				0	12		21	3	
4	0	0		0		0			0,0		0	0	0	0	0		0	0		0						0			0	4	
5																															5
6	0	0		1		0			0,3		0	0	1	0	1		0	0		4					0				1	6	
7	0	0	0	0		0	0		0,0	0	0	0	0	0	0	0	0	0	0	0	0				0	0	0	0	0	7	
8	0	0	0	0		0	0		0,0	0	0	0	0	0	0	0	0	0	0	0	0				0	0	0	0	0	8	
9	1	1	0	0	0	0	0	0	0,3	0	2	2	0	3	0	0	8	8	0	0	0	0	0		0	0	0	0	2	9	
10	0	0		0	0	0	0	0	0,0	0	0	0	0	0	0	0	0	0		0	0	0		0	0	0	0	0	0	10	
11	0	0				0	0	0	0,0	0	0	0		0		0	0	0		0	0	0		0	0	0	0	0	0	11	
12	0	0	0			0	0	0	0,0	0	0	0		0		0	0	0	0		0	0	0	0	0	0	0	0	0	12	
13	0	0							0,0		0	0		0			0	0											0	13	
14																															14
15	0	0	0	0		0	0	0	0,0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0		0	0	0	15	
16	0	0	0	0	0	0	0	0	0,0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0		0	0	0	16	
17	0	0	0	0		0	0	0	0,0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0		0	0	0	17	
18	0	0	0	0		0	0	0	0,0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0				0	18	
19	0	0	0	0		0			0,0		0	0	0	0	0	0	0	0	0	0				0	0				0	19	
20	0	0	0	0		0			0,0		0	0	0	0	0	0	0	0	0	0					0				0	20	
21		0				0			0,0			0					0	0							0				0	21	
22																															22
23	0	0		0		0	0	0	0,0	0	0	0	0	0	0	0	0	0		0	0	0			0		0	0	0	23	
24	0	0		0		0	0		0,0	0	0	0	0	0	0	0	0	0		0	0	0							0	24	
25	0	2	1	2		2	0		1,2	2	0	3	3	0	4	3	0	12	4	12	8		0		0	0	8	0	4	25	
26		2		13		2	2		4,8			4	22		3		16		100		12				8			34	26		
27	2	2	2	5		2			2,6		3	3	12	4	4		12	12	8	32					8	0		12	27		
28		0				0			0,0			0						0							0				0	28	
29	0	0				0			0,0		0	0		0			0	0							0				0	29	
##	0,3	0,4	0,8	1,3	0,0	2,7	0,6	0,2	0,8	3,1	0,9	0,8	2,5	1,1	1,2	0,9	3,65	3	3	10	11	1	0	####	0	2	####	2	0	4,4	

Belgian Solar Observers

Polar Faculae

Month: February 2008

Date	Dubois			Steen			Deman			Gabriel			Carels			Janssen			T.Spaninks			G.Gubbels				
	125mm F20			102mm F15			150mmF15			250 mm F20			150mm F8			200mmF10			127mm F15							
	North	South	Q	North	South	Q	North	South	Q	North	South	Q	North	South	Q	North	South	Q	North	South	Q	North	South	Q	North	South
1																										
2	3	6	3	7	12	4	10	8	3							2	6	3,5	1	3	4	2	4	4		
3																						0	5	3		
4	1	6	3	2	5	4,0																				
5																										
6	1	3	3	3	2	3,5																				
7	3	8	4	3	4	3,0	10	9	3				0	2	4							1	4	3		
8	2	4	3																0	0	3	0	3	4		
9	1	6	3	3	5	3,5										3	5	3,0	0	0	3	2	5	4,5		
10	2	10	4	3	7	4,0							0	2	5	1	4	4,0	0	0	4	4	7	4,5		
11	3	10	3	2	5	4,0	11	28	5	18	17	4							1	2	4	0	4	4		
12	6	9	4	4	6	4,0	15	16	5	21	23											1	8	4		
13				3	6	4,0																				
14																										
15				3	5	3,0				19	20	3							0	0	4					
16	3	7	3	5	6	3,0				17	16	3				2	3					5	8	4		
17	2	5	3	5	9	3,5	14	29	4	24	18	3	2	3	4				0	1	4	3	6	4,5		
18	1	2	3	7	8	4,0	19	34	5	21	20	3	3	4	3				1	0	4	2	3	3		
19	5	5	3																							
20	1	2	3	3	5	3,5				23	25	3	2	0	4											
21																										
22																										
23				2	3	3,5																	0	3	3,5	
24	2	8	3	3	5	3,5				15	35	3										3	8	3,5		
25	1	6	3	5	7	3,5	7	24	3	12	29	3	0	1	3							3	3	3		
26																										
27				4	5	3,5				11	32	4							0	0	4					
28																										
29										10	41	3														
	2,31	6,06		3,72	5,83		12,3	21,1		17,4	25,1		1,17	2,00		2,00	4,50		0,33	0,67		1,86	5,07			



SIDC Weekly bulletin on Solar and Geomagnetic activity
WEEK 373 from 2008 Feb 18

SOLAR ACTIVITY

No flares occurred this week. The X-ray radiation output was even below the measurement level of GOES10. A small equatorial hole passed the central meridian on Feb 17.

GEOMAGNETIC ACTIVITY

The equatorial hole caused minor disturbances on Feb 18. Only period with $K_p=4$ was measured. Apart from this period, the estimated K_p index reached a maximum value of only 3.

SIDC Weekly bulletin on Solar and Geomagnetic activity
WEEK 374 from 2008 Feb 25

SOLAR ACTIVITY

Solar activity was extremely low during the whole week.

GEOMAGNETIC ACTIVITY

Geomagnetic activity was dominated by the influence of a recurrent coronal hole. Effects were observed in two periods. A first moderate geomagnetic activity period was detected late on Feb 27th and early on Feb 28th. A longer period of unsettled and minor storm conditions was then observed later on Feb 28th, at planetary and regional levels ($K=5$ at Dourbes, Feb 28th 21-24 UT); it ended on March 1st at planetary levels.

SIDC Weekly bulletin on Solar and Geomagnetic activity
WEEK 375 from 2008 Mar 03

SOLAR ACTIVITY

Only one small sunspot group was observed this week. Solar activity thus remained very low during the entire week. The X-ray flux remained below A1 level and the 10.7cm flux was close to its lowest possible value, at 68 sfu. A large recurrent coronal hole in the Southern hemisphere rotated in a geoeffective position by the end of the week.

GEOMAGNETIC ACTIVITY

The week started with a decaying fast solar wind stream. The geomagnetic field was temporarily unsettled early on March 3. Then, it remained quiet until March 8. On that date, the Earth entered a recurrent solar wind stream. The solar wind speed then rose stepwise to a maximum of 650 km/s on March 9. This induced active to minor storm conditions on March 9. This solar wind disturbance will probably cause unsettled to active geomagnetic conditions during the first two days of next week.

SIDC Weekly bulletin on Solar and Geomagnetic activity
WEEK 376 from 2008 Mar 10

SOLAR ACTIVITY

Only on Mar 11 there was some flaring activity registered by GOES. A new small active region NOAA AR 0985 in the west produced a B5.9 flare. An extended recurrent southern coronal hole with a large polar extension, passed the solar disk and was in view for the whole week.

GEOMAGNETIC ACTIVITY

We were under the influence of the coronal hole mentioned in the section SOLAR ACTIVITY.

The co-rotating interaction region arrived on Mar 08. The intensity of the magnetic field carried with the fast solar wind was already decreased on Mar 11. But because of the dynamic pressure, a combination of the high solar wind speed (700-600 km/s) and high density, the K_p index became several times 4. The geomagnetic conditions became unsettled to quiet from Mar 16.
